

HP Access Control (HP AC)

Getting Started Guide

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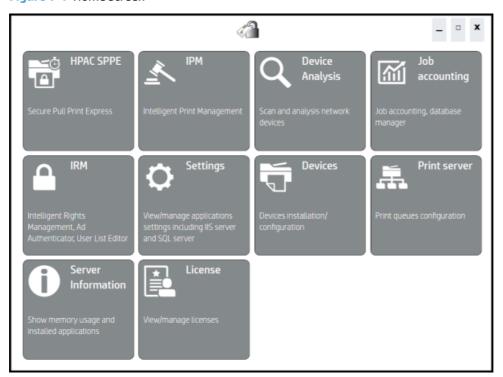
Introduction

This guide is intended for administrators with experience using Windows servers. The following chapters explain how to use the HP Access Control (HP AC) configuration tool and introduce you to the process of configuring HP Access Control (HP AC) solutions on printers.

To open the HP Access Control (HP AC) configuration tool, go to Start > All Programs > HP Access Control, then click **HP AC Configuration utility**.

The HP Access Control (HP AC) configuration tool consists of components organized as tiles on the home screen.

Figure 1-1 Home screen



NOTE: The tiles may vary, depending on what HP Access Control (HP AC) components are installed on the server.

Click a tile from the HP Access Control (HP AC) home screen to use the component. Return to the home screen at any time by clicking the back button in the top left corner.

This guide provides information about the License, Settings, Devices, Print Server, and Server Information tiles. For more information about HP Access Control (HP AC) components, see the individual component guides.

To view the individual component guides, click a component tile. Go to the **Help** menu, then click Administrator Guide or User Guide.

2 Prerequisites

Before using HP Access Control (HP AC) components, make sure to complete the following steps.

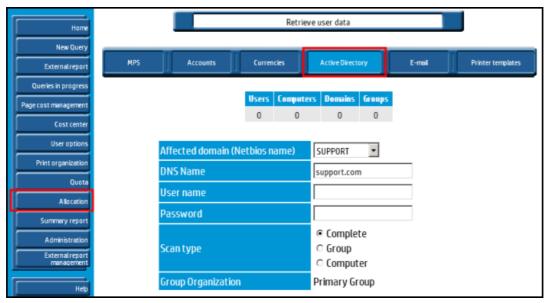
 If you will be using Job Accounting, go to the Settings tile > Database tab > Database Configuration section and verify the SQL server connection settings. Click Test to test the connection to the Job Accounting database in SQL. Click Apply to apply the settings.

Figure 2-1 Database setup



If you will be using Job Accounting, you must scan the Active Directory domain to allow for accurate user tracking. Go to the Job Accounting tile > Administration > Active Directory > Retrieve User Data.
 Enter the correct information regarding your domain and administrator credentials, then click the Go button. For more information, see the HP Access Control (HP AC) Job Accounting User Guide.

Figure 2-2 Retrieve user data



If you will be using Agent or print server to send tracking information to the Job Accounting server, go to
the Settings tile > IIS tab > Push mode section. Select a transfer protocol to auto-upload, or push,
tracking data. Click Test to test the connection to the Job Accounting server. Click Apply.

Figure 2-3 Push mode setup



If you will be configuring devices, go to the Settings tile > Device tab > Device section. Enter a device
password in the Administrator password field. This device password must match the device passwords
in all printers. Click Apply.

Figure 2-4 Device password setup



If you will be using Job Accounting, IPM, Secure Pull Print, Secure Pull Print Express, Secure Pull Print
Enterprise, or IRM, go to the Settings tile > IIS tab > Web service section and verify the server
information. Click Test to test the connection. Click Apply.

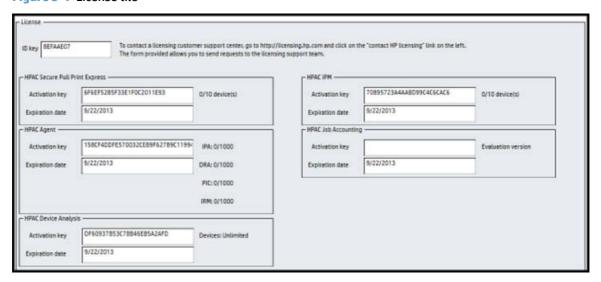
Figure 2-5 Web service setup



3 License tile

The License tile shows your server license number, Activation Keys for installed components and expiration dates of licenses.

Figure 3-1 License tile



- NOTE: Information in the License tile may vary depending on what components of HP Access Control (HP AC) are installed on the server.
- NOTE: The License tile is highlighted red on the HP Access Control (HP AC) home screen if a component license is expired.
- NOTE: The Secure Pull Print Express license resets after 24 hours. This allows for users to pull print at new devices every day.

The ID key field contains the server license number that identifies your server for the HP Licensing Support team. To receive Activation Keys for components, you need to contact the HP licensing customer support center:

- 1. Go to the HP licensing customer support center at http://licensing.hp.com.
- 2. Click Contact HP Licensing on the left.
- Fill in all required fields. In the Your comments field, make sure to include your server license number. Then submit the form.

After your license request is processed, you will receive an email containing Activation Keys. Copy the component Activation Keys and paste into the Activation Key fields in the License tile.

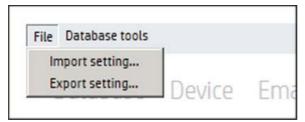
4 Settings tile

The Settings tile allows you to view and change all the settings of installed components from one location.

- **IMPORTANT:** After making changes in the Settings tile, be sure to click the corresponding **Apply** button to apply the settings.
- NOTE: Information in the Settings tile may vary depending on what components of HP Access Control (HP AC) are installed on the server.

Click the **File** menu to import or export setting information. Information you select and enter in the Settings tile can be exported as an XML file. It is recommended to export settings in case the server or application needs to be reinstalled.

Figure 4-1 Settings file menu



- Click Import setting if you want to import an XML file of previously saved settings.
- Click **Export setting** if you want to save your current settings as an XML file.

The **Database tools** menu allows you to repair or backup the database of setting information in case the server or application needs to be reinstalled. Information you select and enter in the Settings tile is stored in a database.

- Click Compact and repair database to compact the database file.
- Click Backup database to save the database as an SDF file.

4.1 Database tab

The Database tab allows you to setup or modify the connection to the SQL Server database where job accounting reports are stored.

Figure 4-2 Database tab



NOTE: The **Database** tab displays if HP Access Control (HP AC) Job Accounting is installed.

The **Database configuration** section contains the method to connect to the SQL database/instance containing job accounting data. The SQL Server field displays the name and instance of the SQL Server installed. If you are connecting to a SQL Server on a different server, make sure the name and instance of the SQL Server is correct.

There are two possible authentication methods to connect to the job accounting database stored in SQL Server: Windows authentication or SQL authentication.

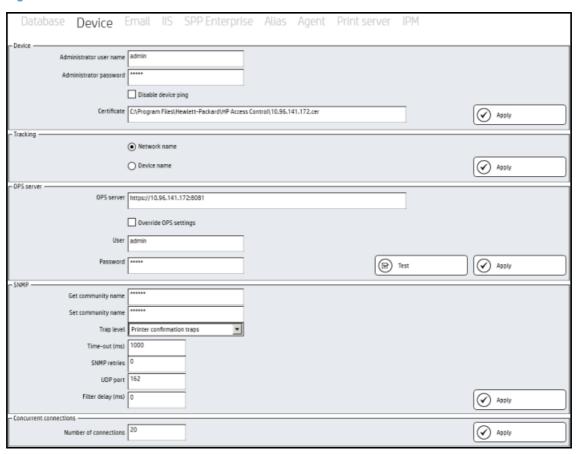
- If SQL authentication is selected, make sure the SQL credentials in the User and Password fields are correct.
- If Windows authentication is selected, make sure the LocalSystem account checkbox in the Agent configuration section is unchecked. Enter the correct Windows credentials in the Domain\User and Password fields.

The **Agent configuration** section contains credential fields to allow access to the Job Accounting website. When the **LocalSystem account** checkbox is unchecked, Windows credentials must be entered in the Domain \User and Password fields. Click the **Enable IIS anonymous authentication** checkbox to assign the IIS anonymous user identity to the username entered in the Domain\User field. This allows only the domain user to access the Job Accounting website.

4.2 Device tab

The **Device** tab allows you to setup the device administrator password, setup the OPS server, select tracking options, and modify the SNMP connection to devices.

Figure 4-3 Device tab



NOTE: The Device tab displays if DTM, Device Analysis, Agent, or Secure Pull Print Express is installed.

Figure 4-4 Device settings



In the **Device** section, the device administrator user name and password is required for communication between the server and devices. This is necessary to install and configure solutions on devices. Make sure the Administrator user name and password in the Device section matches the administrator user names and passwords of all the devices you want to configure.

Click the **Disable Device Ping** checkbox to not allow pinging between devices and the server, and to only perform telnet communications between devices and the server. By default, ping is used to detect the presence of a device IP, then telnet is used to verify that the device is a printer. Select this checkbox if ping is disabled in your network, so that only telnet will be used.

The Certificate field displays the OPS certificate required to configure pull printing on HP Officejet Pro printers. HP OXPd Professional Services (OPS) brings OXPd functionality to HP Officejet Pro devices by hosting all printer configurations. The OPS certificate is created to establish secure communication between the server and Officejet Pro printers.

Figure 4-5 Tracking settings



In the **Tracking** section, select what device information you want to display in job accounting reports when HP FutureSmart devices are configured for tracking.

- Select **Device name** to display the device names in job accounting reports.
- Select **Network name** to display the host names of devices in job accounting reports. Make sure the **Get community name** is entered in the SNMP section to be able to read the network/host names of devices.

Figure 4-6 OPS server settings



With the OPS Server, you can configure HP Officejet Pro single-function and multi-function devices for authentication and pull printing. When Agent or Secure Pull Print Express is installed on the server, the OPS Server is installed and started. For more information about configuring HP Officejet Pro devices, see the HP Access Control (HP AC) Secure Pull Print Express Admin Guide.

In the OPS Server section, make sure the OPS Server field displays the correct server name where OPS is installed. Also, make sure port 8081 is open for connection between the OPS Server and HP Officejet Pro devices.

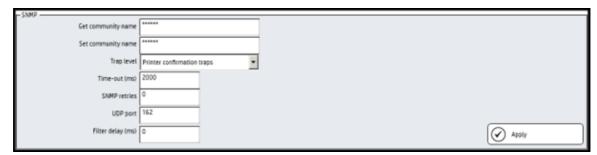
Click the **Override OPS settings** if you will be configuring an Officejet Pro printer that was previously configured on a different server. This checkbox allows you to override previous configuration settings when the printer is configured on the current server.

Enter the correct **User** name and **Password** that was set up during the installation of OPS Server.

NOTE: The OPS password can be changed by reinstalling OPS. The opssetup.exe installation file can be found in the C:\Program Files\Hewlett-Packard\HP Access Control\Misc folder.

Click **Test** to test the connection to the OPS Server and make sure port 8081 is open.

Figure 4-7 SNMP settings



In the SNMP section, set the **Get** and **Set** community names for communication to and from devices. The **Get** community name allows the server to retrieve device and tracking data from a configured device. The Set community name allows the server to send information to the device, such as a reboot command. By default, the Get and Set community names are "public". For communication between the server and devices, the Get and Set community names on the server must match the Get and Set community names on all devices.

NOTE: The SNMP section displays if Job Accounting, Device Analysis, Agent, or Secure Pull Print Express is installed on the server.

In the Trap level field, select the type of traps you want to track with Direct Tracking Module (DTM). A trap is a packet of information provided by the printer that indicates basic job information and print job status.

- **Print Confirmation traps** is the default Trap level. With Print Confirmation traps selected, only printed job traps are sent from the device. This is used to reduce the network traffic with unwanted traps.
- All traps are to track all jobs, printed, copied, or digitally sent. Some versions of HP JetDirect require that **All traps mode** is selected.

The **UDP port** field is the port used by the trap service. By default, the trap service uses UDP port 162. If the port is used by another application or service on the same server, the Job Accounting Trap service can use another port. If the port is changed, the Job Accounting Trap service (HPACJA_SnmpTrap) needs to be stopped and restarted. Printers also need to be reconfigured using the new port.

The **Filter Delay** is used if JetDirect sends the same trap multiple times in a very short interval. This occurs on external JetDirect 300x and 500x. The delay value can be set to 50 ms for 300x and 500x. For other devices, the default value can remain at 0.

In the Concurrent connections section, set the number of network devices you want to install and configure at one time. The maximum number of concurrent connections allowed is 50.

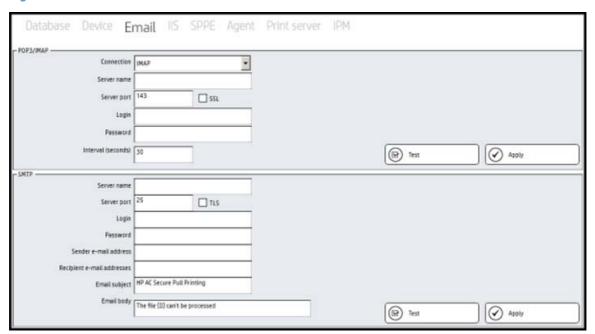
Figure 4-8 Concurrent connections



4.3 Email tab

The Email tab allows you to setup email server settings to send HP Access Control (HP AC) notifications to users and to allow users to email jobs for pull printing.

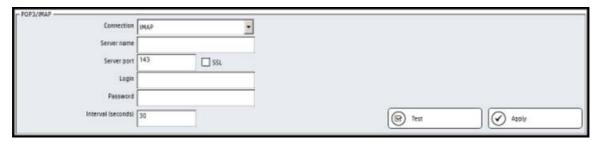
Figure 4-9 Email tab



NOTE: The Email tab displays if Job Accounting, Device Analysis, IPM, Agent, or Secure Pull Print Express is installed.

In the POP3/IMAP section, enter your company's email server information if you want to allow users to email jobs for pull printing. The Secure Pull Print Express email service checks for and processes emailed jobs from

Figure 4-10 POP3 IMAP settings





NOTE: The POP3/IMAP section displays only if Secure Pull Print Express is installed.

In the Connection field, select **POP3** or **IMAP** as the connection method to the email server.

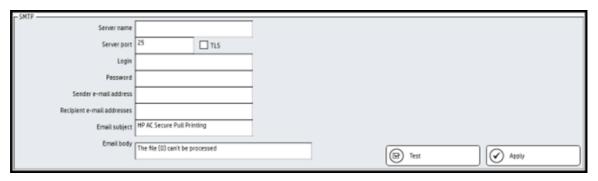
In the **Server name** field, type the name or address of the email server you want the Secure Pull Print Express email service to check for emailed jobs from users.

The **Server port** field displays the default server port for POP3 or IMAP. The default POP3 server port is 110. The default IMAP server port is 143. Click the SSL checkbox if the email server requires a secure connection. If you click the SSL checkbox, the Skip SSL validation checkbox displays. Click Skip SLL validation to allow the service to connect to the email server via SSL without installing a valid certificate on the server.

In the **Login** and **Password** fields, type the login name and password for access to the email server.

In the **Interval (seconds)** field, you can change how often the Secure Pull Print Express email services checks for emails. The default time is 30 seconds.

Figure 4-11 SMTP settings



The **SMTP** section allows you to configure emails you want to send from the server. The following information can be emailed:

- Job Accounting reports
- Results of Device Analysis scheduled scans
- IPM notifications via the Email rule
- Secure Pull Print Express or Secure Pull Print Enterprise notification if a user's job cannot be processed
- AD User Editor information, AD Group Manager information, and User List Editor PINs

In the **Server name** field, type the name or address of your company email server.

In the **Server port** field, type the email server port. The default port is 25. Click the **TLS** checkbox to enable the Transport Layer Security protocol to encrypt and deliver mail securely.

In the **Login** and **Password** fields, type the login name and password for access to the email server.

In the **Sender email address** field, type the email address you want to appear in the "From" field of emails. For Secure Pull Print Express purposes, it is recommended to use the same email address that users email jobs to, so that users receive notification emails from the same address they emailed.

In the **Recipient email addresses** field, type email addresses to test the connection between the email server and recipient email addresses. This determines if a recipient can receive an email from the email server. Click the **Test** button to send an email to the recipients. A popup window appears to display information about the connection.

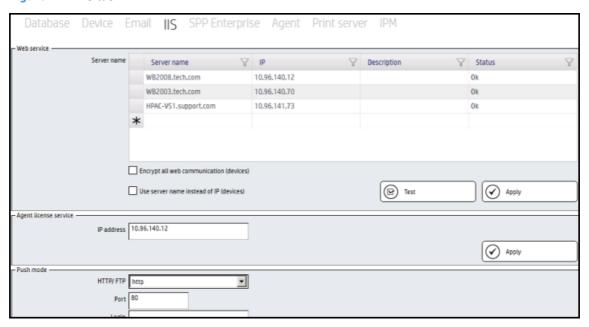
In the **Email subject** field, type the subject of the notification email. If Secure Pull Print Express is installed, the default email subject is "HP AC Secure Pull Printing".

In the **Email body** field, type what you want to appear in the body of the notification email. If Secure Pull Print Express is installed, the default is "The file {0} can't be processed", where {0} represents the name of the job.

4.4 IIS tab

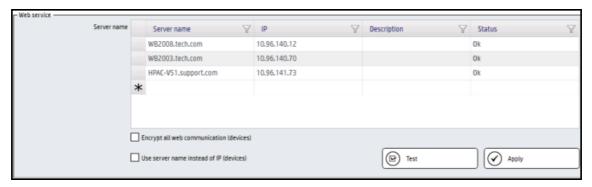
The IIS tab contains IIS and web service settings.

Figure 4-12 IIS tab



NOTE: The IIS tab displays if Job Accounting, Agent, IPM, Secure Pull Print, Secure Pull Print Enterprise, or Secure Pull Print Express is installed.

Figure 4-13 Web service settings



The Web service is used for the following:

- For multi-function devices to communicate with the Job Accounting website to determine quotas for copies and digital sending jobs
- To send IPM notifications to client desktops
- For users to access Pull Printing jobs from a printer, mobile device or web page
- For the server to communicate with the IRM license website
- For central management of printer fleets. When multiple servers are entered in the Web service settings
 and when devices are configured in the Devices tile, a dropdown list displays in the Configure window,
 allowing you to select the server you want to configure the device to. From one central server, you can
 configure printers to be managed by a different server.

The **Server name** and **Server IP** fields display the name and IP address of the server containing the Quota, IPM, and Pull Printing web services. Make sure the information is correct to allow for communication between the web service and client desktops or devices. To add additional servers, enter the Fully Qualified Domain Name (FQDN) of the additional server in the **Server name** column and enter the IP address of the server in the

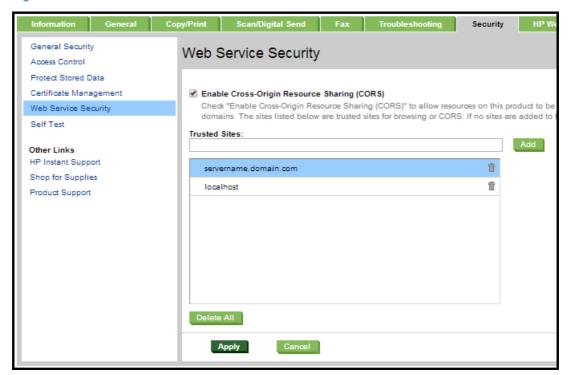
IP column. Click the **Test** button to test the connection. The Status column should display OK. Then click Apply.

Click the Encrypt all web communication (devices) checkbox if you want to enable the HTTPS protocol for communications between devices and the server.

Click the **Use server name instead of IP (devices)** checkbox for one or both of the following reasons:

- If the server name was entered during the installation and configuration of the OPS server. See the HP Access Control (HP AC) Install Guide for more information about the installation of the OPS server.
- If the web service security feature Cross-Origin Resource Sharing (CORS) is enabled on FutureSmart devices. To pull print at the device with Secure Pull Print Express, make sure the server name is added to the CORS Trusted Sites list. To use tracking at the device with Job Accounting, make sure the server name is listed in the CORS Trusted Sites list. To pull print at the device with Secure Pull Print, make sure "localhost" is listed in the CORS Trusted Sites list.

Figure 4-14 CORS trusted sites

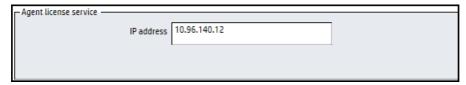


- NOTE: If OPS is configured on the server and you want to change the configuration of OPS to use the server name or the server IP address, follow the steps below:
 - 1. Close the HP Access Control (HP AC) configuration tool.
 - 2. Navigate to the C:\Program Files (x86)\Hewlett-Packard\OPS\config folder and open the ops.cfg file in a text editor application. After "host=", enter the server IP address or servername.domain.com, where servername is the name of the server, and domain is the name of the domain. Save and close the file.
 - 3. Navigate to the C:\Program Files\Hewlett-Packard\HP Access Control folder and delete the OPS certificate file.
 - **4.** Go to **Administrative Tools** > **Services** and restart the OPS service. Restarting the OPS service creates a new OPS certificate using the server name or server IP address.
 - 5. Open the HP Access Control (HP AC) configuration tool. Go to the **Settings** tile > **Device** tab and verify that the OPS certificate file name and the OPS server field contain the server name or server IP address.

Click **Test** to test the connection to the web service.

The **Agent license service** section allows you to assign a different server to handle licensing for IRM. This must be done before devices are configured. Enter the IP address of the server to handle licensing for IRM. By default, the field is populated with the IP address of the current server. After making any changes, click **Apply**.

Figure 4-15 Agent license service settings



In the **Push mode** section, select a transfer protocol to auto-upload, or push, IPA tracking data from configured devices to the job accounting server.

Figure 4-16 Push mode



NOTE: The Push mode section displays if Agent or the standalone Job Accounting Print Server is installed.

In the HTTP/FTP field, select one of the transfer protocols:

- Hypertext Transfer Protocol (HTTP) connections are usually terminated after a particular request has been completed. If HTTP is selected, Windows credentials are required in the Login and Password fields. Also, if IIS 7 or newer is installed on the server, Basic Authentication needs to be enabled. Devices require Basic Authentication to pass data via HTTP when IPA sends tracking data to the Job Accounting Print Server. The default port is 80.
- **File Transfer Protocol (FTP)** is best for uploading data to an internal database server. If FTP is selected, any credentials can be used in the Login and Password fields. By default, the login and password are "Anonymous". The default port is 21. Select the PASV checkbox to enable passive mode FTP if you want to allow data to transfer more easily through firewalls.

The **Interval (minutes)** field determines how often tracking data is pushed from devices to the job accounting server.

Click **Test** to test the HTTP or FTP connection.

The **IPM authentication** section contains credential fields to allow access to the IPM web service to retrieve user grouping information (user grouping is setup in the Settings tile > IPM tab > User grouping section). Windows credentials must be entered in the Login and Password fields.

Figure 4-17 IPM authentication

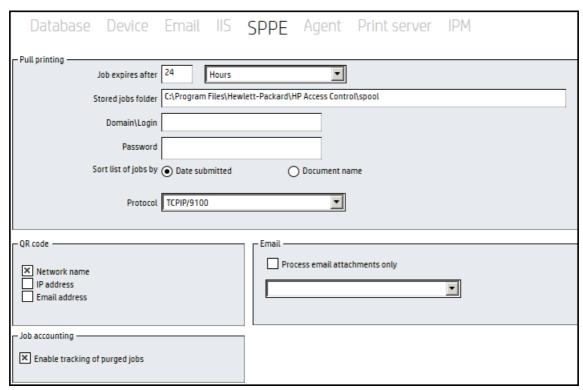


IIS anonymous authentication means the IIS anonymous user identity will be assigned to the user name entered in the Login field. This allows only the domain user to access the IPM web service. Click Apply, then click **Restart IIS** to clear previous user grouping cache information.

4.5 SPPE tab

The SPPE tab contains settings for the Secure Pull Print Express component.

Figure 4-18 SPPE settings

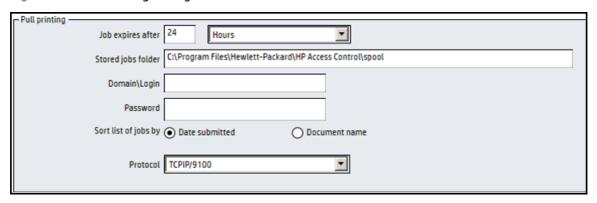


NOTE: The SPPE tab displays if Secure Pull Print Express is installed.

The Clear cache button deletes cached information linking a user's login with the user's email address. When a user logs in at a device, information is retrieved from Active Directory, including the user's email address. The user name and email address are then stored in the cache to gather the user's printed jobs and emailed jobs under one user folder.

In the **Pull Printing** section, change the settings of stored jobs.

Figure 4-19 Pull Printing settings



In the **Job expires after** fields, select when you want jobs to expire. This can be used to manage the amount of stored jobs on the server to reduce job storage space. The default expiration time is 24 hours.

The **Stored jobs** folder field displays the default location for stored pull print jobs. Double-click the text field to browse to a different folder location. If you want to store jobs in a different folder on the network, you must have write access to the folder. In the **Domain\Login** and **Password** fields, type the credentials that have write access to the network folder.

IMPORTANT: To pull print using a shared network folder, the same service account credentials entered in the Domain\Login field must be used for read/write access to the network folder, for the HPACSPPE application pool identity, and for the Log On setting in the HP AC SPPE service.

Next to **Sort list of jobs by**, select **Date submitted** or **Document name** to determine the sort setting. The sort setting applies to the jobs list viewed on a mobile device, at a multi-function printer front panel, and on the SPPE web page.

In the **Protocol** field, select the way SPP Express will communicate with the printer. The choice of protocol will depend on the destination device, its capabilities, and the level of control and feedback required from the device.

TCPIP/9100 is a direct protocol that provides a simple direct communication channel between SPP Express and the printer engine. A connection is established to TCP/IP port 9100 and all data sent by SPP Express is passed through directly to the printer.

TCPIP/LPR provides very limited feedback from devices about the success of a print request and provides no facilities for checkpoint restart of a failed request.

TCPIP/IPPS is a secure protocol that allows SPP Express to encrypt the data stream sent to the device.

In the **QR code** section, select the printer information to encode in the QR code. A user can scan a QR code with a mobile device to route stored jobs to a selected printer. If any parameter is selected, the QR code will display on the front panel when an MFP is configured for pull printing.

Figure 4-20 QR code



NOTE: The number of devices that can be configured with QR codes is unlimited. But the number of devices that can be used for pull printing is limited by the number of devices in the Secure Pull Print Express license.

☆ TIP: The order of printer information can be rearranged in the QR code. Drag and drop items in the list to change the order.

In the **Email** section, click the **Process email attachment only** checkbox if you want email attachments, not email bodies, to be processed as pull print jobs. This allows users to view their email attachments as pull print jobs in their stored jobs folder.

Figure 4-21 Email section

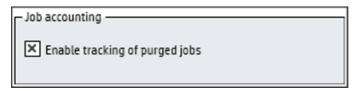


Email jobs must use the settings and features, such as color or duplex settings, of a printer before they can be processed as pull print jobs. Click the dropdown list to select an installed printer with the features you want to apply to email jobs. The printer must be a local printer with a PCL5, PCL6 or PS print driver.

IMPORTANT: If the "Service not started with a domain account" message displays in the Email section, you must restart the HP AC SPPE Mail service with a domain account. To restart the service with a domain account, go to Administrative Tools > Services. Right-click the HP AC SPPE Mail service, then click **Properties.** Under the Log On tab, select **This account** and enter the credentials of a domain account. Click **OK**. Restart the **HP AC SPPE Mail** service.

In the Job accounting section, select the Enable tracking of purged jobs checkbox if you want to track expired pull print jobs in Job Accounting.

Figure 4-22 Job Accounting



When this box is checked, an XML file is created for each job that is purged. The XML file includes information such as the purged job name, the date the job was submitted, and the date the job was purged. The XML files are created in one of the following locations:

- If Job Accounting is installed on the same server as Secure Pull Print Express, the XML files are created in the following folder:
 - C:\Program Files\ Hewlett-Packard\HP Access Control\temporary\DTM
- If Job Accounting is installed on a different server, the XML files are created in the following folder:
 - C:\Program Files\Hewlett-Packard\HP Access Control\temporary

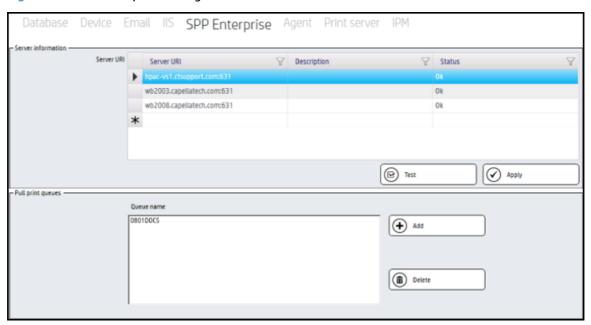
When purging is complete, the XML files are pushed to the Job Accounting server in the \Temporary \DTM folder.

NOTE: If all the user's jobs are deleted, the user's stored jobs folder is automatically deleted.

4.6 SPP Enterprise tab

The SPP Enterprise tab contains settings for the SPP Enterprise component.

Figure 4-23 SPP Enterprise settings



NOTE: The SPP Enterprise tab displays only if the SPP Enterprise component is installed.

With SPP Enterprise users can stored jobs on one server, then release the same job at a different location from a printer configured on a different server. In the Server Information section, click an open row, then enter the Fully Qualified Domain Name (FQDN) of a server you want to add, including the IPP port number (Example: Servername.Domain.com:631). Click the Test button to test the connection to the server. The Status column should display **OK**. Then click **Apply**.

Figure 4-24 Server Information settings

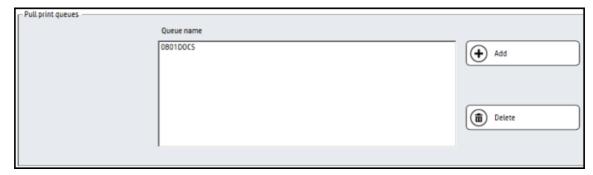


If you want to store pull print jobs in a different location other than the C drive, stop the HP AC SPP Enterprise service then move the \spoolroot folder and subfolders to the new local drive. This cannot be a network share or mounted drive. Open the \bin\vpsstart.ini file and enter the new location on the SERVROOT line. Save the file and restart the service after the folder has been moved.

SPP Enterprise pull print queues will allow the server to receive jobs printed from client computers. When jobs are received from client computers, the jobs are stored in the C:\Program Files\Hewlett-Packard\HP Access Control\spoolroot\spool\Queue folder, where Queue is the name of the pull print queue. Each job is stored as two files, a DAT file and an INF file. In the Pull Print Queues section, click **Add**. In the Queue name field, type any name for the pull print queue. Click **Add**.

NOTE: When a pull print queue is created from the HP AC configuration utility, a printer definition file is created in the C:\Program Files\Hewlett-Packard\HP Access Control\spoolroot\prtr folder. This printer definition file is required to allow the print queue to receive print jobs from client printers.

Figure 4-25 Pull print queues settings



Edit the following settings in the **Options** section:

Protocol: This defines the way SPP Enterprise will communicate with the printer. The choice of protocol will depend on the destination device, its capabilities, and the level of control and feedback required from the device.

TCPIP/SOCK is a direct socket protocol that provides a simple direct communication channel between SPP Enterprise and the printer engine. A connection is established to TCP/IP port 9100 and all data sent by SPP Enterprise is passed through directly to the printer.

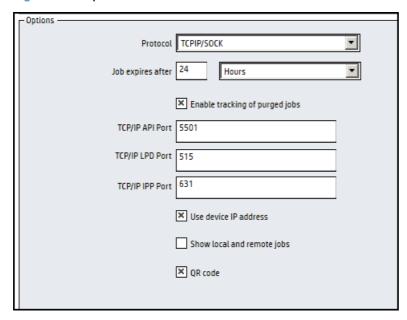
TCPIP/PJL implements a bi-directional communication channel with the printer engine using the PJL (Printer Job Language) job management language. This protocol provides the most sophisticated control of print delivery, including guaranteed delivery of each page to the output hopper, checkpoint restart in the event of a failure, and full device status information (i.e., page jam, load paper, etc.). The default implementation delivers one document at a time and waits for all pages to be delivered to the output tray before commencing delivery of the next document. While this provides the highest level of assured delivery, it can introduce a delay between documents caused by the printer engine winding down while the paper path is completely cleared. When printing a large number of small document this delay between jobs is most noticeable.

TCPIP/IPPS is a secure protocol that allows SPP Enterprise to encrypt the data stream sent to the device.

- Job expires after: This is the expiration time for stored jobs. The default time is 24 hours. After the expiration time, jobs are deleted from the server.
- Enable tracking of purged jobs: When enabled, this checkbox allows expired or deleted jobs to be tracked for job accounting.
- TCP/IP API Port: Specifies the local TCP/IP port that SPP Enterprise will open for API requests. Port 5501 is the default port. After making any changes, make sure to click the **Restart Service** button to restart the HP AC SPP Enterprise service.
- **TCP/IP LPD Port**: Specifies the local TCP/IP port that SPP Enterprise will open for inbound LPD requests. Port 515 is the default port. If an LPD daemon is already running on the server, shut down this process to enable SPP Enterprise to open port 515. After making any changes, make sure to click the **Restart Service** button to restart the HP AC SPP Enterprise service.
- **TCP/IP IPP Port**: Specifies the local TCP/IP port that SPP Enterprise will open for inbound IPP requests. Port 631 is the default port. After making any changes, make sure to click the **Restart Service** button to restart the HP AC SPP Enterprise service.

- Use device IP address: When enabled, this checkbox allows the spooler to identify the printer via IP address instead of host name, in case the host name has changed and a printer has not been reconfigured. It is recommended that printers have fixed IP addresses.
- **Show local and remote jobs**: When enabled, this checkbox allows for pull print queues from all SPP Enterprise servers to automatically display on a device front panel after authentication. If this is disabled, the user will need to manually select the Remote Jobs button at the front panel to view all pull print queues.
- **QR Code**: Enable this checkbox if you want a QR code to display on the front panel of MFPs. This allows users that have the HP Mobile Release app to identify the printer for mobile pull printing.

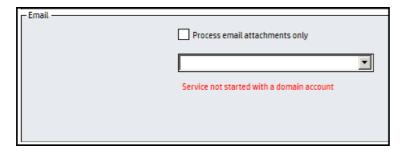
Figure 4-26 Options



Edit the following settings in the **Email** section:

- **Process email attachments only**: Enable this checkbox if you want email attachments, not email bodies, to be processed as pull print jobs. This allows users to view their email attachments as pull print jobs in their stored jobs folder.
- Printer dropdown menu: This must be a pull print queue created locally on the server. This must use the settings and features, such as color duplex settings, of a printer before they can be processed as pull print jobs. Click the dropdown list to select an installed pull print queue with the features you want to apply to email jobs. The printer must be a local printer with a PCL5, PCL6 or PS print driver.

Figure 4-27 Email settings



NOTE: If the "Service not started with a domain account" message displays in the Email section, you must restart the HP AC SPP Mail service with a domain account. To restart the service with a domain account, go to Administrative Tools > Services. Right-click the HP AC SPP Mail service, then click Properties. Under the Log On tab, select This account and enter the credentials of a domain account. Click OK. Restart the HP AC SPP Mail service.

4.7 Alias tab

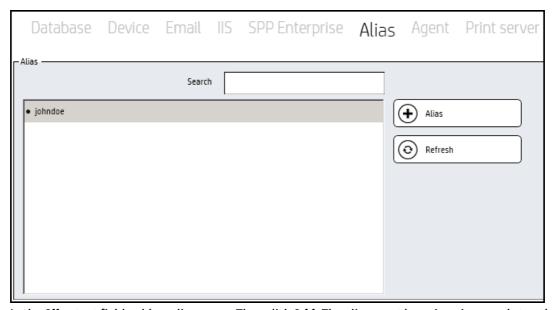
If users do not have the same user logon on all systems, aliases allow users to get their documents into the same account from all systems.

In the Alias tab, select a user from the list, then click Add.



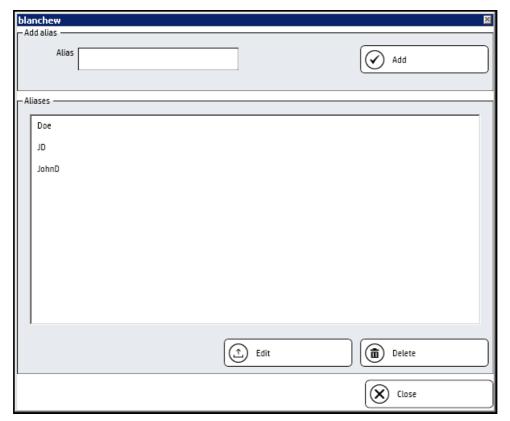
NOTE: A black dot next to the user's name indicates that the user has an alias.

Figure 4-28 Alias tab



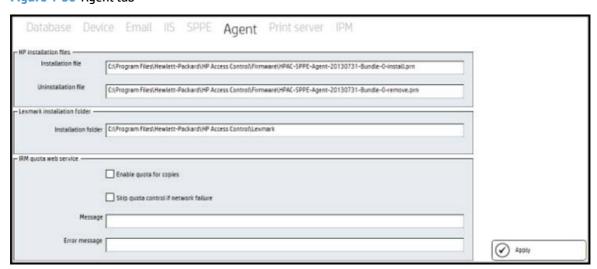
In the Alias text field, add an alias name. Then click Add. The alias must be unique in regards to other user aliases and user logons. Any number of aliases can be entered.

Figure 4-29 Alias window



4.8 Agent tab

Figure 4-30 Agent tab



NOTE: The Agent tab displays if Agent is installed.

In the **HP installation files** section, make sure the correct Installation and Uninstallation PRN files display. Double-click the text field to browse to a different location.

Figure 4-31 HP install files

| Installation file | C:\Program Files\Hewlett-Packard\HP Access Control\Firmware\HPAC-SPPE-Agent-20130731-Bundle-0-install.prn |
|---------------------|--|
| | STORY WILLIAM STORY OF THE STOR |
| Uninstallation file | C:\Program Files\Hewlett-Packard\HP Access Control\Firmware\HPAC-SPPE-Agent-20130731-Bundle-0-remove.prn |
| | C:\Program Files\newiett-Packard\nP Access Control\Filmware\nPAC-SPFE-Agent-20130731-bundle-0-remove.prn |

Use the Devices tile to install or uninstall the SPPE-Agent solution in HP printers.

The **Lexmark installation folder** section displays the default folder location of Lexmark installation files. Double-click in the text field to browse to a different location.

Figure 4-32 Lexmark install

| Lexmark installation folder — | |
|-------------------------------|--|
| Installation folder | C:\Program Files\Hewlett-Packard\HP Access Control\Lexmark |
| | |

Use the Devices tile to install Lexmark installation files in Lexmark printers.

In the **IRM quota web service** section, select features you want to enable.

Figure 4-33 IRM quota web service

| IRM quota web service | Enable quota for copies |
|-----------------------|---------------------------------------|
| | Skip quota control if network failure |
| Message | |
| Error message | |

Click the **Enable quota for copies** checkbox to allow the IRM quota web service to count user quotas for copies. When a user uses the copy function at a multi-function device, the web service retrieves from Job Accounting the number of remaining copies allowed for the user. The web service then communicates with the device to notify the user that he or she has reached his or her quota limit.

Click the **Skip quota control if network failure** checkbox to allow users to print after the server loses connection to the IRM quota web service. If this feature is not enabled and there is a network failure, then quotas cannot be determined and all printing stops.

In the **Message** field, type a custom message to display on the front panel of the device when a user reaches his or her quota limit.

In the **Error message** field, type a custom message to display on the front panel of the device when there is a communication error with the IRM quota web service.

4.9 Print server tab

Figure 4-34 Print server tab



NOTE: The Print Server tab displays if the Job Accounting Print Server is installed.

In the **Print server tracking** section, select the method to gather tracking data.

- **Port monitor** creates a new port monitor for printers. This is the preferred method to gather tracking
- **Print processor** replaces the existing print processor with the Job Accounting print processor. This method may not work with all printer drivers.

In the **Print server quota web service** section, click to enable features of the quota web service:

- Click the **Skip quota control if network failure** checkbox to allow users to print after the server loses connection to the web service. If this feature is not enabled and there is a network failure, then quotas cannot be determined and all printing stops.
- Click the **End user notification** checkbox to enable notifications on client workstations of remaining user quotas.

In the **Snmp tracking** section, click to enable features:

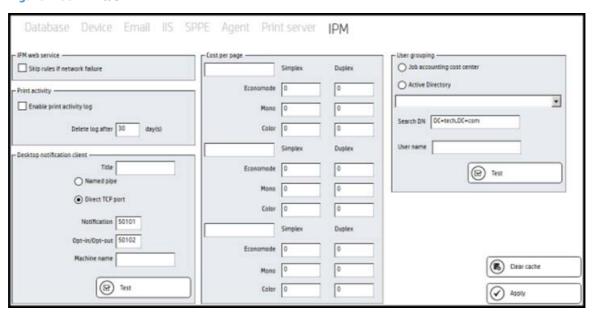
- Click the **Track copies** checkbox to enable tracking of copies at multi-function printers. For more information, see the HP Access Control (HP AC) Agent Admin Guide.
- Click the **Track digital sending** checkbox to enable tracking of digital send jobs at multi-function printers. For more information, see the HP Access Control (HP AC) Agent Admin Guide.

In the **Encoding** section, click the **Double byte encoding** checkbox to track print jobs with job names containing double byte characters.

In the **Encryption** section, click the Encryption checkbox to encrypt tracking data on the print server and when data is sent to the job accounting server.

4.10 IPM tab

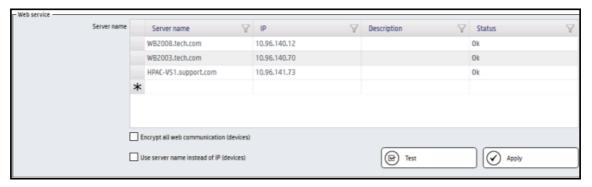
Figure 4-35 IPM tab



NOTE: The IPM tab displays if Intelligent Print Management (IPM) is installed.

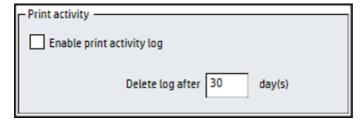
Click the Skip rules if network failure checkbox to allow users to print after the server loses connection to the IPM web service. If this feature is not enabled and there is a network failure, then rules cannot be checked and all printing stops.

Figure 4-36 IPM web service settings



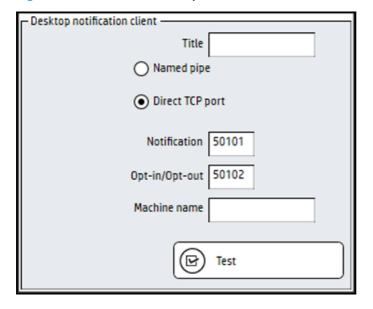
Click the Enable print activity log checkbox to enable a list of all jobs printed with IPM rules. The Print Activity Log can be viewed in the IPM tile > Print activity log tab.

Figure 4-37 Print activity log



Enter the parameters to configure the **Notification Desktop Client**. The Notification Desktop Client is a light client application that allows notifications, such as defined printing costs, to be sent from the server to user desktops.

Figure 4-38 Notification desktop client



The **Title** field displays the default title of the notification window when the window displays on client desktops. If you want to change the title of the notification window, type a new title in the Title field.

Select **Named pipe** or **Direct TCP port** as the communication method between the server and client desktops, according on your network environment.

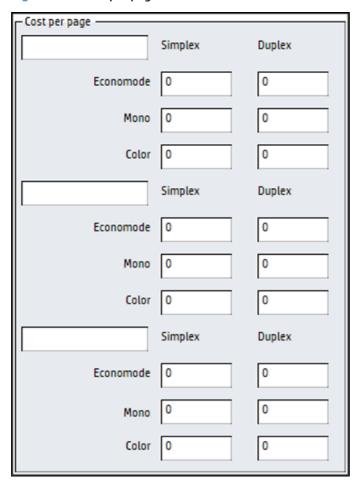


NOTE: If the Opt-in/Opt-out rule is enabled in IPM, select Direct TCP port.

In the **Machine name** field, type the DNS name or IP address of a user desktop to test the connection between the server and the desktop. Click the **Test** button.

Use the cost per page feature to set estimated costs for different features within a print job. The Desktop Notification Client uses this data to notify the end user of the cost of a print job. If the Opt-in/Opt-out action is used, the user can modify the job to meet an estimated target cost.

Figure 4-39 Cost per page

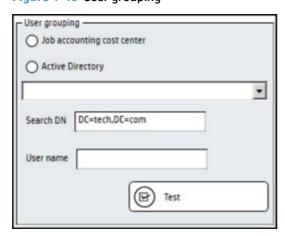


Define up to three Cost per page profiles to set different cost models for different print queues.

TIP: Values for duplex printing should always be lower than those for simplex printing.

The User grouping section applies when the cost center option of the IPM job stamp rule is used. When cost center is selected in the IPM job stamp rule, the name of a user's cost center group is printed on all printed pages.

Figure 4-40 User grouping



The cost center information is gathered from one of the following sources:

- Select Job accounting cost center if you want to use cost centers defined in Job Accounting. For more
 information about defining Job Accounting cost centers, see the HP Access Control (HP AC) Job
 Accounting User Guide.
- Select Active Directory if you want to use groups defined in Active Directory. Click the dropdown list to select an Active Directory field containing the group names you want printed in job stamps.

The **Search DN** field displays the domain your server belongs to.

To test the connection to Job Accounting or Active Directory, type a user name in the **User name** field, then click the **Test** button. The name of the group the user belongs to displays in the status bar at the bottom.

4.11 FDT tab

In the **FDT** tab, specify the folder containing the Fleet Deployment Tool installation folder and workflow files you want to send to devices.

Figure 4-41 FDT tab



NOTE: The FDT tab displays if the HP Fleet Deployment Tool application is installed on the server.

The HP Fleet Deployment Tool (FDT) is a standalone tool designed to install and configure your printer fleet. This FDT tab utilizes the customized workflows created by the HP Fleet Deployment Tool, allowing you to send firmware, in-printer agents or configuration files to multiple devices for a more automated deployment. See the HP Fleet Deployment Tool User Guide included with the Fleet Deployment Tool application for instructions to create workflows.

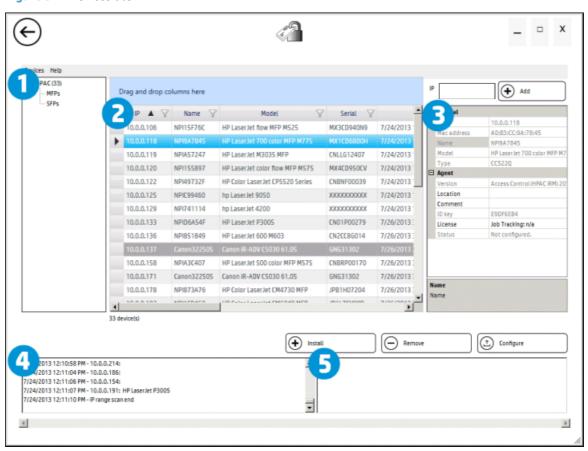
Double-click the **FDT installation** folder field to browse to the FleetDeploymentTool folder containing the FDTCommandLine.exe file.

Double-click in the **Workflow folder** field to browse to the folder containing FDT workflow files. A specific FDT workflow file is selected during the configuration of devices from the Devices tile.

5 Devices tile

The Devices tile allows you to manage devices in your printing environment. Organize devices into groups and see what is installed on each printer. From the Devices tile, you can easily install and configure printers for tracking, quota, pull printing, authentication or rights managements.

Figure 5-1 Devices tile



- Device groups: In the device groups section you can create groups to better organize your printer environment. Right-click a group name to Add, Delete, or Rename a group.
- 2. Device list: The device list section displays device information, such as the device model, IP address and configuration status. When a component is configured on a device, an X displays under the Pull Printing, Tracking, Authentication, Authorization, Quota or Trap column, depending on the component that is enabled.
- 3. Device details: The device details section allows you to view more information about a device and the solution installed. Click the License field to view a dropdown list of components that are enabled and licensed. The Location field displays location information from a FutureSmart EWS. For a non-FutureSmart device or XT device, type information in the Location and Comment fields, hit Enter, then reconfigure the device. The device details may vary, depending on what is installed on the device.

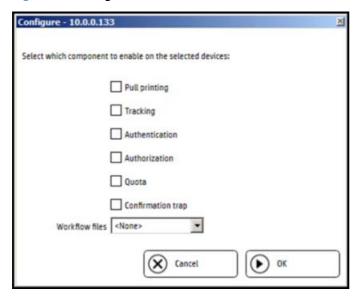
- **Status bar**: The status bar allows you to view error messages and the status of scans or configurations. Right-click in the status bar and click Clear to delete the log information.
- 5. **Tracking bar**: The tracking bar displays data from devices configured for Confirmation Trap or from FutureSmart devices configured for Tracking.

Device rows in the device list may be highlighted, indicating the following:

- Yellow indicates the Agent file is installed but not configured for tracking.
- Grey indicates the device is a XT device. For more information about XT devices, see the HP AC Secure Pull Print Express Admin Guide.
- Red indicates the solution is installed but not licensed. On HP non-FutureSmart devices, red also
 indicates the solution is installed but not configured correctly to push tracking data to the Job
 Accounting server.

When you click the **Configure** button for a selected device, the Configure window displays.

Figure 5-2 Configure window



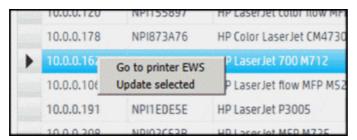
Select the components you want to enable on the selected device.

- Pull printing: Enable the Secure Pull Print Express button on multi-function printer front panels or enable pull printing with an XT device. The number of MFP devices that can be configured with the Secure Pull Print Express button is unlimited, but the number of devices that can be used for pull printing is limited by the number of devices in the Secure Pull Print Express license.
- **Tracking**: Enable tracking on the device. When Tracking is enabled on a FutureSmart device, information about the printer and print jobs displays in the status bar.
- Authentication: Enable IRM authentication on the device.
- Authorization: Enable IRM rights management on the device.
- **Quota**: Enable quota communication between Job Accounting and the device.
- **Confirmation trap**: Enable DTM traps on the device. When Confirmation trap is enabled on a device, information about the printer and print jobs displays in the status bar.
- Workflow files: Select an FDT workflow to apply on the device.

IMPORTANT: Configuration at a device occurs in order, starting at the top of the Configure window list. This means the FDT workflow is always configured last on a device.

Right-click a device to display a dropdown menu of possible actions.

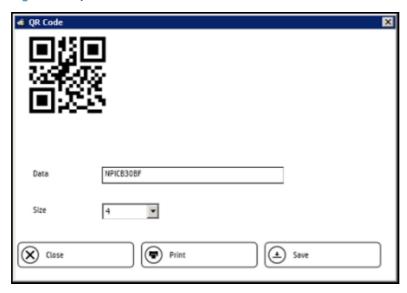
Figure 5-3 Devices dropdown menu



NOTE: The dropdown menu options may vary, depending on the type of device and the configured components on the device.

- Click Go to printer EWS to go to the device's Embedded Web Server page.
- Click Update selected to refresh the device data.
- Click **Test trap** to test a device with the Confirmation traps component enabled.
- Click Reboot device to restart an XT device.
- Click Reset to factory settings to remove all configurations on an XT device.
- Click Generate QR code to create a QR code for the printer. In the QR Code window, QR code data, selected in the Settings tile > SPPE tab, displays. Print a QR code to display on single-function printers if you want users to detect the printer with the HP Mobile Release mobile app. For more information about HP Mobile Release, see the HP Access Control (HP AC) Secure Pull Print Express Admin Guide.
- Click Enable OXPd 1.6 and reboot device to enable OXPd 1.6 on HP non-FutureSmart LaserJet multifunction printers. This is to allow the HP AC Express button to display on the front panel for pull printing. If OXPd 1.6 is not enabled on the device, pull printing cannot be configured and a "OXPd 1.6 is not enabled" message displays. The Enable OXPd 1.6 and reboot device menu item displays even if OXPd 1.6 is already enabled on the device.

Figure 5-4 QR code

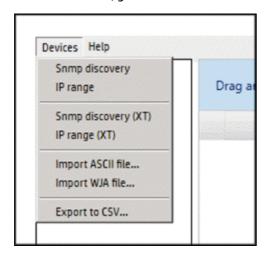


5.1 Scan the network for printers

To scan the network for single-function printers, multi-function devices, and XT devices, the following is required:

- Printers and devices must be turned on and connected to the network.
- A device administrator user name and password must be entered in the Settings tile > Device tab.

In the Devices tile, go to the **Devices** menu and select **Snmp discovery** or **IP range**.



- Snmp discovery sends a broadcast over the network and discovers available devices.
- IP range scans for devices within a selected range of IP addresses. In the IP Range window, enter IP addresses in the Start and End fields. Then click Start to scan the network.

Figure 5-5 IP range



TIP: To scan multiple IP ranges at once, enter an IP range in the Start and End fields, then click **Add**. Add multiple IP ranges to the list. Click **Save** to save the IP range list. Click **Load** to load a previously saved IP range list.

The progress of the scan displays in the status section at the bottom, and device data appears in the device list.

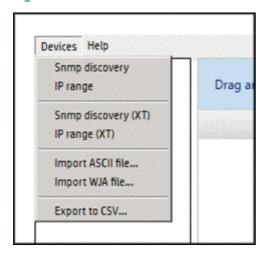
5.2 Scan the network for XT devices

The XT device is an external device with an attached card reader that allows for pull printing at any printer or multi-function device. A user simply presents his or her card at the XT card reader and all of his or her stored jobs are printed at the connected printer. For more information about XT, see the HP Access Control (HP AC) Secure Pull Print Express Admin Guide. To scan the network for XT devices, the following is required:

- XT devices must be connected to a power source, connected to the network, and connected to a printer.
- If your server has a firewall and you want to scan the network using Snmp discovery, make sure UDP 11000 is open.

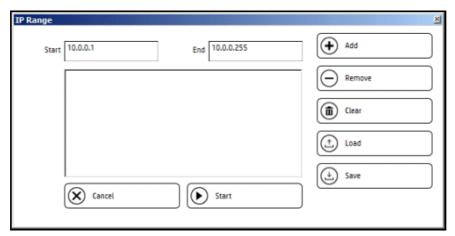
In the Devices tile, go to the Devices menu and select Snmp discovery (XT) or IP range (XT).

Figure 5-6 Devices menu



- Snmp discovery (XT) sends a broadcast over the network and discovers available XT devices.
- IP range (XT) scans for XT devices within a selected range of IP addresses. In the IP Range window, enter IP addresses in the Start and End fields. Then click Start to scan the network.

Figure 5-7 IP range window

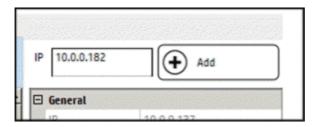


The progress of the scan displays in the status section at the bottom, and device data appears in the device list.

5.3 Manually add a device

1. In the IP field, type the IP address of a device you want to add.

Figure 5-8 Add devices



2. Click Add.

5.4 Delete a device from the device list

- 1. Select the device(s) from the device list.
- 2. Press the **Delete** key. Then click **OK** to confirm the deletion.

5.5 Import/Export device data

To export device data to a CSV file, follow the steps below:

- Go to the **Devices** menu and select **Export to CSV**.
- 2. Browse to a save location, then click **Save**.

To import a list of IP addresses/host names in ASCII format, follow the steps below:

- **IMPORTANT:** In the TXT file, each device IP address must be listed on a separate line.
 - 1. Go to the Devices menu and select **Import ASCII file**.
 - 2. Browse to the location of the TXT file, then click **Open**.

To import device data from a CSV file that was exported from Web Jetadmin, follow the steps below:

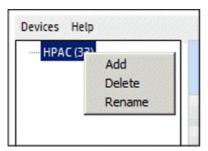
- **IMPORTANT:** In the CSV file, each device must be listed on a separate line.
 - 1. Go to the Devices menu and select Import WJA file.
 - 2. Browse to the location of the exported CSV file, then click **Open**.

5.6 Organize and manage devices

If you want to organize devices by groups, follow the steps below:

1. Right-click the HPAC device group, then click **Add**. Give the new group a unique name.

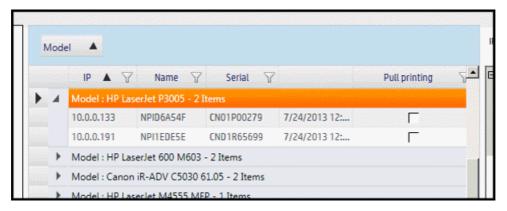
Figure 5-9 Add device groups



- 2. Click and drag devices from the device list to the new group name. This moves the device data from the HPAC group to the new group.
- TIP: Create multiple groups to better organize your printer environment. For example, create a group for single-function printers named SFPs to manage the installation and configuration of only single-function printers.

If you want to better organize the information displayed in the device list, click and drag column headings to the Drag and drop columns here area.

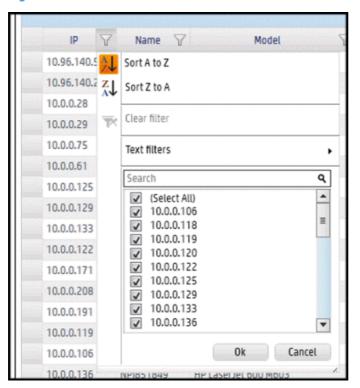
Figure 5-10 Group devices



TIP: Drag multiple columns to the drag and drop area for better organization. Rearrange the order of the columns from left to right to change the order of information displayed.

Click the filter icon in any column to sort or filter device data.

Figure 5-11 Filter devices



5.7 Install and configure components on HP FutureSmart and non-FutureSmart devices

Prerequisites:

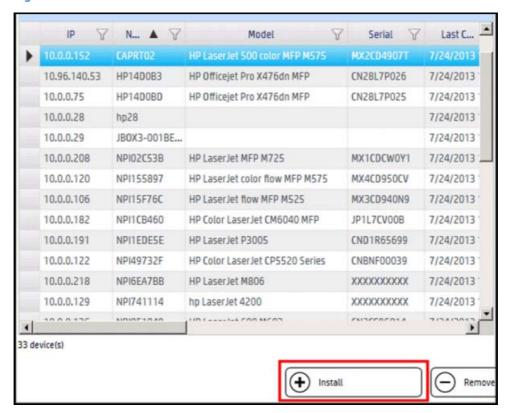
- Before installing any solution on HP devices, make sure the correct PRN installation file displays in the Installation file field in the Settings tile > Agent tab.
- Make sure a device administrator password is set on MFPs and matches the device administrator name and password in the **Settings** tile > **Device** tab.
- On some Non-FutureSmart MFPs, make sure to right-click the device row and select Enable OXPd 1.6
 and reboot device before configuring the device for pull printing. OXPd 1.6 allows the pull printing
 button to display on the front panel.
- Make sure the printing protocol selected in the HP AC configuration tool (in the Settings tile > SPP
 Express or SPP Enterprise tab) is enabled on the HP device (in the device EWS > Networking tab > Other
 Settings page).

Follow the steps below:

Select the device(s) from the device list.

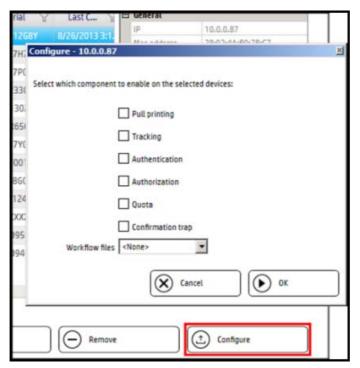
Click Install to send the installation file to the device(s). The HP device(s) may reboot during the installation process. Please wait for the device(s) to return to the Ready state.

Figure 5-12 Device install



3. Select the device(s) from the device list, then click **Configure**. In the Configure window, select each component you want to configure on the device(s). Click **OK**.

Figure 5-13 Configure device



- IMPORTANT: When reconfiguring the device(s), place an **X** in a component checkbox to resend the configuration file. Place a **/** in a component checkbox to not resend the configuration file and leave the current configuration status as is. Clear a component checkbox to disable the component on the device.
- NOTE: To remove the solution from Non-FutureSmart device, select the device from the device list, then click the **Remove** button.

5.8 Configure components on HP Officejet Pro printers

See the table below for supported HP OfficeJet Pro printers and firmware.

Table 5-1 Supported HP OfficeJet Pro printers and firmware

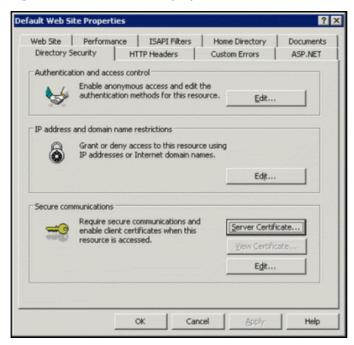
| Supported HP OfficeJet Pro printer | Minimum firmware versions |
|--|---------------------------|
| HP Officejet Pro 251 | EVP1CN3327DR |
| HP Officejet Pro 276 MFP | FRP1CN3327DR |
| HP Officejet Pro X476 MFP and X576 MFP | LNP1CN1327DR |
| HP Officejet Pro X551 | BZP1CN1327DR |

Before configuring an HP Officejet Pro printer from Windows Server 2003 using IIS 6, IIS 7 or newer, the SSL certificate must be manually selected in IIS. Follow the steps below:

IIS 6:

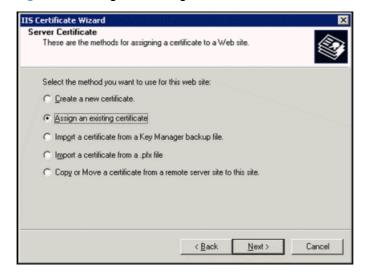
- 1. Go to Administrative Tools > Internet Information Services (IIS) Manager.
- 2. Select **Default Web Site** and right-click to open **Properties**.
- 3. In the Properties window, select the **Directory Security** tab and then click **Server Certificate**.

Figure 5-14 Default website properties



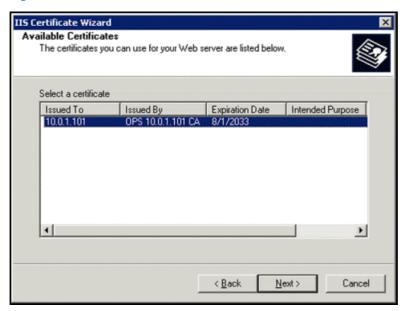
4. The Web Server Certificate Wizard opens. Select Assign an existing certificate. Click Next.

Figure 5-15 Assign an existing certificate



5. Select the OPS server certificate and click **Next**. Click **Finish** at the end.

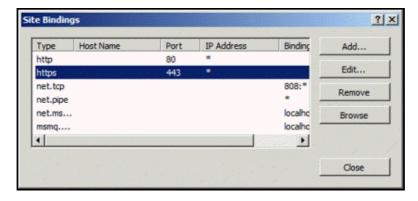
Figure 5-16 Select certificate



IIS 7 or newer:

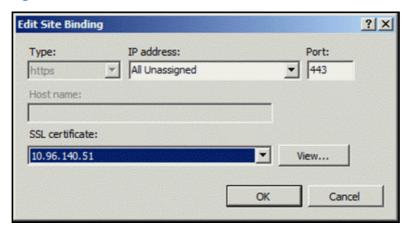
- 1. Go to Administrative Tools > Internet Information Services (IIS) Manager.
- 2. Select **Default Web Site** and then click **Bindings**.
- Select https and then click Edit.

Figure 5-17 Edit bindings



4. Select the certificate from the SSL certificate dropdown menu. Click **OK**.

Figure 5-18 SSL certificate



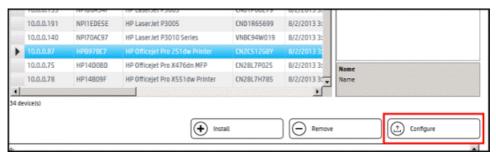
Prerequisites:

- Agent and Secure Pull Print Express must be installed on the server.
- On Windows Server 2003, make sure the OPS service is started with a domain account.
- Make sure the Officejet Pro device administrator password matches the device administrator name and password in the Settings tile > Device tab.
- Make sure the correct OPS certificate displays in the Certificate field in the Settings tile > Device tab.

Follow the steps below:

1. Select the device(s) from the device list, then click **Configure**.

Figure 5-19 OfficeJet configure

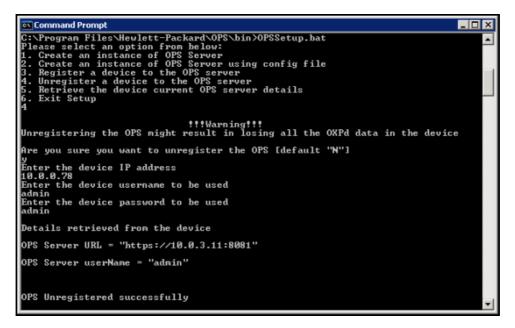


- In the Configure window, select the following components:
 - Select **Pull printing** to enable the Secure Pull Print Express app button.
 - Select **Authentication** to enable IRM authentication.
 - Select **Authorization** to enable IRM rights management.
- Click OK.

5.8.1 Unregister an Officejet Pro printer

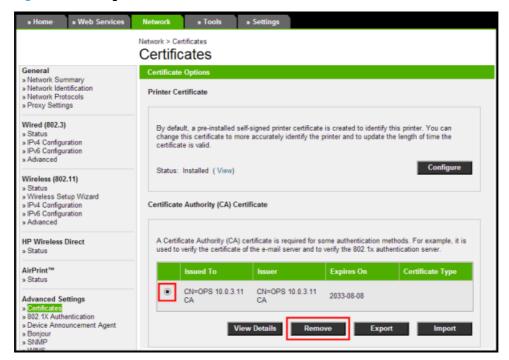
If you unregister an Officejet Pro printer from the OPS server, no third party applications will work. To unregister an Officejet Pro printer from an OPS server, follow the steps below:

- Open a command prompt and run the OPSSetup.bat file, located in the C:\Program Files (x86)\Hewlett-Packard\OPS\bin folder. On 64-bit servers, make sure you select "Run as administrator" when you open the command prompt.
- **2.** From the available options, select **Unregister a device to the OPS server** and follow the on-screen instructions.



Open the EWS of the Officejet Pro printer and go to Network > Certificates page. Select the OPS certificate, then click Remove.

Figure 5-20 Unregister officeJet



5.9 Configure components on HP S900 series devices

Prerequisites

- Make sure PIC licenses are available on the HP AC server. A PIC license is required for each device to allow for walk-up authentication.
- If you want to use a front panel QR code for pull printing with a mobile device, make sure to manually generate a QR code prior to configuring the device.
- If you will be using SPP Enterprise on an HP S900 series device, make sure to go to the HP AC configuration tool > Devices tile and configure the device for Pull Printing. This will create a printer definition file, which is required to use SPP Enterprise. For more information, see the HP AC SPP Enterprise Admin Guide.

Open a web browser and enter the IP address of the device to go to the device's web page to configure the device. The default username for the device web page is "admin" and the default password is "admin".

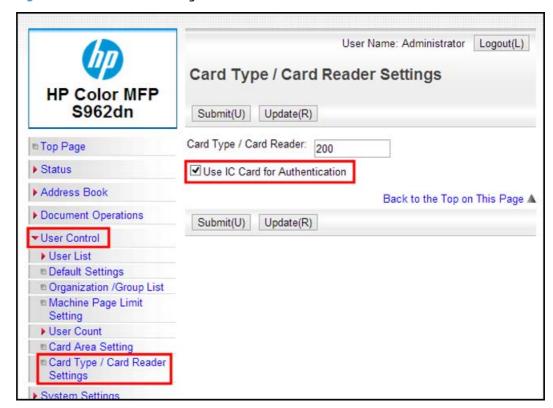
HP S900 series devices support pull printing using SPP Express or SPP Enterprise. Follow the steps below:

- To install a card reader for card authentication, follow the steps below:
 - IMPORTANT: By default, card readers are configured to read HID and iClass card types. If you want the card reader to read different card types, update the card reader before connecting to the printer. For instructions on how to configure and update the card reader, see the Set Proximity Reader parameters section on pages 22-25 of the HP Access Control (HP AC) Agent Admin Guide. Specific parts/kits along with part numbers are required for Hip reader integration on the S900 devices.

Contact your HP service tech to have a card reader installed in your S900 series device.

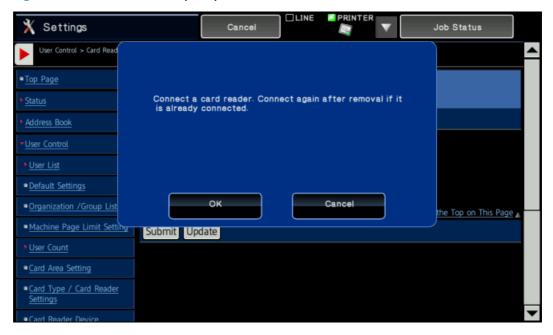
Select User Control followed by Card Type / Card Reader Settings. Select the Use IC Card for Authentication checkbox. Make sure the Card Type / Card Reader value is set to 200. Click Submit(U).

Figure 5-21 Card Reader settings



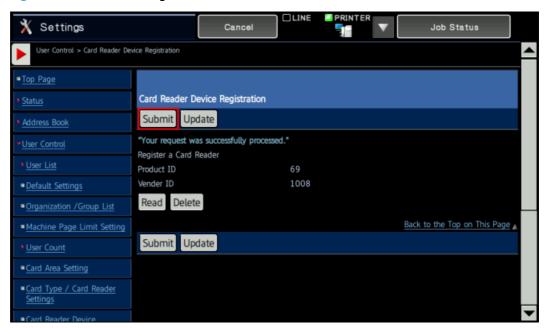
- b. At the device, tap Settings > User Control > Card Reader Device Registration. Then tap Read.
- **c.** When prompted, plug in the card reader. The card reader will beep twice. Tap **OK**. The card reader Product ID and Vender ID displays on the screen.

Figure 5-22 Insert card reader prompt



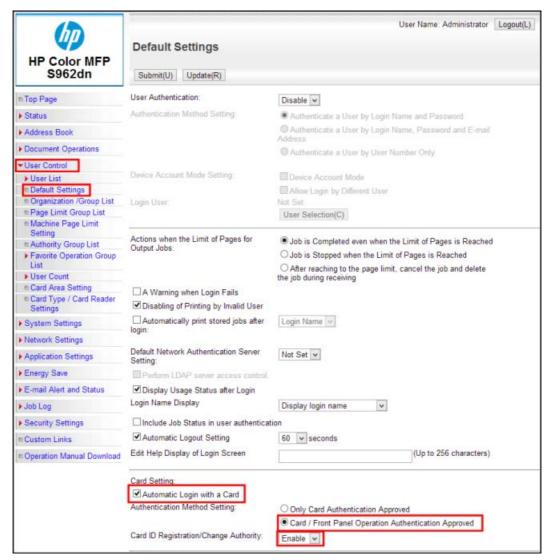
Tap **Submit** to save the card reader registration. d.

Figure 5-23 Card reader registration



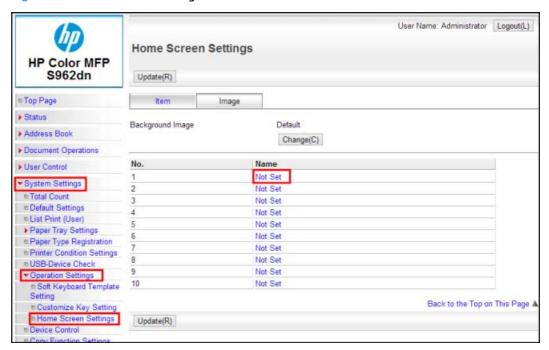
To configure the device for card authentication, select User Control followed by Default Settings. Scroll down to the Card Setting section. Select the Automatic Login with a Card checkbox. Select the Card/Front Panel Operation Authentication Approved checkbox. Specify Enable in the Card ID Registration/Change Authority dropdown.

Figure 5-24 Default settings



- On the device web page, select System Settings followed by Operation Settings followed by Home Screen Settings.
 - **a.** Select the **Image** tab followed by one of the **Not Set** links.

Figure 5-25 Home screen settings



b. On the Registration screen, specify the name of the image you wish to associate with the Top Level MFP panel for the application. The HP AC icon, named "icon48x44.png", is located on the HP AC server in the C:\Program Files\Hewlett-Packard\HP Access Control\DPR folder. Click Submit(U).

Figure 5-26 Home screen registration



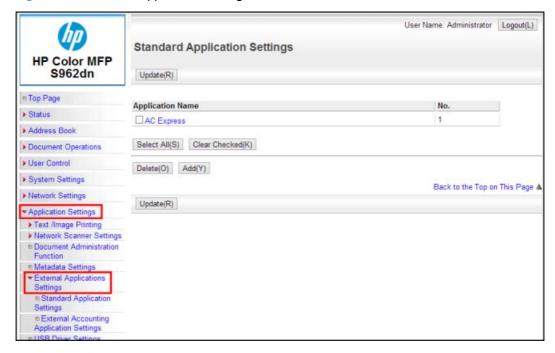
c. After adding the custom image, select the Item tab followed by the Apps Home Button link. Scroll to the bottom of the page and select the **Use Custom Image** checkbox. Then specify the image you added in step 4b. Then select **Reboot Now** to reboot the device and apply the settings.

Figure 5-27 Custom image



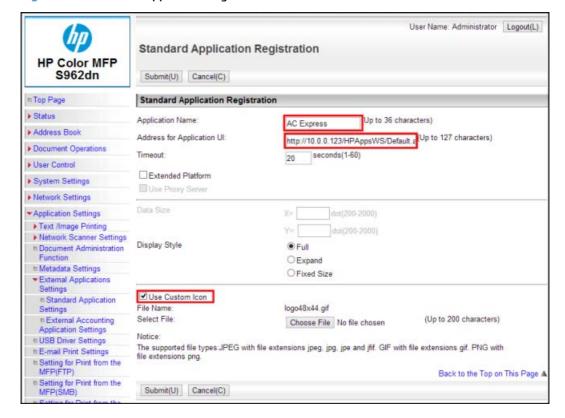
 To register HP AC Express with the MFP, select Application Settings followed by External Applications Settings.

Figure 5-28 Standard Application settings



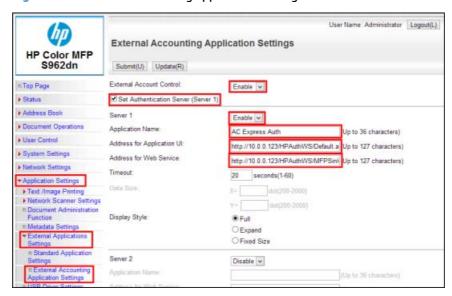
From the External Application Settings, select the **Add** button. Specify the Application Name as **AC Express**. Specify the Address for Application UI as **http://serverIP/HPAppsWS/Default.aspx**, where serverIP is the IP address of the server. On the same page, select the **Use Custom Icon** checkbox and then select the image you wish to associate with the Print Pulling application.

Figure 5-29 Standard Application registration



- To register the HPAuthWS authentication application with the MFP, select Application Settings followed by External Applications Settings followed by External Accounting Application Settings.
 - a. Select **Enable** in the **External Account Control** dropdown.
 - **b.** Select the **Set Authentication Server (Server 1)** checkbox.
 - c. Select Enable in the Server 1 dropdown.
 - d. Specify an Application Name.
 - **e.** Specify the **Address for Application UI** as http://serverIP/HPAuthWS/Default.aspx, where serverIP is the IP address of the server.
 - **f.** Specify the **Address for Web Service** as http://serverIP/HPAuthWS/MFPSink.asmx, where serverIP is the IP address of the server.

Figure 5-30 External accounting application settings



g. Click Submit. Then select Reboot Now to reboot the device and apply the settings.

5.9.1 Pull printing at the device

Prerequisites:

- On the server, open the HP AC configuration tool, go to the IRM tile > AD Configurator tab and make sure the IRM settings are correct for authentication.
- NOTE: If you change the IRM authentication method to Code Only, you must recycle the HPACWS application pool before authenticating at the device. If an error message displays on the front panel, power cycle the device.
 - To use card authentication, make sure a card reader is connected to the device and cards are registered to users. To enroll cards to users, use the Card Enrollment application from a desktop or use the Card Enrollment feature at an HP LaserJet MFP or HP OfficeJet Pro.
 - If you chose to use the TCPIP/IPPS protocol in the HP AC configuration tool > Settings tile > SPP Express
 or SPP Enterprise tab, make sure IPPS-SLL is enabled on the device. Go to the device web page >
 Security Settings > SLL Settings. In the Setting of SLL section, make sure IPP-SLL is set to Enable. Click
 Submit.

- If the HP AC server is using IIS 6, SSL must be disabled. Go to the IIS Manager > local computer > Web Sites > Default Web site. Right-click HPAppsWS and select Properties. In the ASP.NET tab, click Edit Configuration. In the General tab, set the UseSSL application setting to false. Click OK. Make the same change to the HPAuthWS web site.
- If you will be using SPP Enterprise, make sure the device is configured for Pull Printing.

Follow the steps below to release stored jobs at the device:

- 1. To login at the device, present your card at the card reader or enter your PIC to authenticate.
- 2. Touch **Apps**. If more than one application is configured on the device, tap the pull printing application.

Figure 5-31 Apps



- Select documents from the document list. Tap Print All to print all documents in the list. Tap Print-Delete to print and then delete the document from the document list. Tap Print-Keep to print and keep the document in the document list.
- TIP: If a user is logged in and another user presents his proximity card at the card reader, the first user will be automatically logged out and the second user will be logged in.
- NOTE: If the IRM authentication method is set to Card + Code (dual factor) and you log out by presenting a proximity card at the card reader, the following message displays: "Authentication failed. Please confirm the card." Tap **OK** to log out.

5.10 Install and configure components on Lexmark devices

Before the HP Access Control (HP AC) applications can be used on the Lexmark MFP front panel, MFP devices must have the HP Access Control (HP AC) Lexmark Applications solution installed and enabled. This Lexmark eSF (Embedded Solutions Framework) solution allows HP Access Control (HP AC) applications to be server-based, giving the Lexmark MFP the ability to display the menus and communicate with the jobs folder on the HP Access Control (HP AC) servers, without having any components residing directly on the MFP.

See the table below to determine which printers are supported.

| Model | eSF Version |
|-----------------------------|-------------|
| 651de, X652de, XS651, XS652 | 2.1 |

| X654de, X656de, XS654, XS656 | _ |
|--|-----|
| X658de, XS658 | _ |
| X738de, X736de, X734de, X738dte, XS734, XS736, XS738 | |
| X466dwe, X466dte, X466de, X464de, X463de*, XS463*, XS464, XS466 | |
| T654, TS654 | _ |
| X860de, X862de, X862dte, X864de, X864dhe, XS860, XS862, XS864 | _ |
| W850n, W850dn, WS850 | _ |
| T656, TS656 | _ |
| X746de, X748de, X748dte, XS748 | 3.X |
| C748, CS748 | _ |
| X792de, X792dte, XS795, XS796, XS796, XS798 | _ |
| C792e, C792de, C792dte, C792dhe, CS796 | _ |
| X925de, XS925 | _ |
| C925de | _ |
| X950de, X952de, X952dte, X954de, X954dhe, XS950, XS955 | _ |
| C950de | |
| X548dte, X5548 | _ |
| 6500e | _ |
| MS610, M3150 | 4.X |
| MS810, M5155 | |
| MS812, M5170 | |
| CS510 | |
| MX41x, MX51x, XM1145 | |
| MX61x, XM3150 | |
| MX710, XM5163 | |
| MX711, XM5170 | _ |
| MX81x, XM7155, XM7163, XM7170 | _ |
| CX41x | _ |
| CX51x, XC2132 | _ |

To verify if the applications are already installed on the MFP, follow the steps below:

- Open the embedded Web server (EWS) for the MFP and log in with the user name and password of the device.
- Select the Settings option.
- 3. Select **Apps**. AC Lexmark Applications version numbers are shown in the printers list of installed applications.

Figure 5-32 Lexmark application



5.10.1 Install HP Access Control (HP AC) Lexmark Applications

- **IMPORTANT:** Before installing the solution on Lexmark devices, make sure the correct installation folder displays in the **Installation folder** field in the **Settings** tile > **Agent** tab.
- NOTE: Lexmark printers need to have Basic secure disabled to install software remotely. You may reenable security after the install has finished.
- NOTE: Make sure the printers do NOT have any RFIDeas card readers plugged in prior to installing the software. Drivers will need to be installed, and on some printers the presence of the card reader will prevent the install from completing.
- NOTE: Alternatively, the *.fls packages may be installed using an anonymous FTP connection to the printer.

- 1. In the Devices tile, select the Lexmark printer from the device list.
- Click the Install button.

Please wait a few minutes for the AC Lexmark Applications solution to install. To check the status of the printer, go to the printer's EWS. The current status of the device displays in the page header. If the status is "Busy" or "Not Ready", the applications are installing.

5.10.2 Configure AC Lexmark Applications

NOTE: The administration pages may vary, depending on the model of the Lexmark printer.

Configuration of the AC Lexmark Applications solution consists of pointing the AC Authentication and the Card Enroll applications to the AC server. Follow the steps below:

- In the Devices tile, right-click the Lexmark printer and select Go to printer ews.
- 2. On the printer admin page, select Settings.
- Select Apps or Embedded Solutions, depending on the firmware version installed, to view the list of installed applications.
- 4. Select the **Authentication** solution.
- 5. Select Configure.
- 6. Update the **AC Server URL** with the appropriate server address. Click **Apply**.



Repeat this process for the Card Enroll application.

5.10.3 Lexmark device security settings

Configuration of the Lexmark security settings allows the AC server to control what on-device applications a user has access to.

- NOTE: Since setting up security on a device is a lengthy process it is recommended that system administrators look into device cloning and other administration tools available from Lexmark.
- NOTE: If users encounter authorization problems, users will have to logout and re-authenticate. This issue occurs only when a user authenticates and is properly authorized in one application then attempts to access another application.

- 1. In the Devices tile, right-click the Lexmark printer and select **Go to printer ews**.
- On the printer admin pages, select Settings.
- 3. Select **Security**, then select **Security Setup**.
- 4. If you want to use Card Enroll, select **Active Directory** to configure based on your environment. An HTTPS connection to the EWS may be required. The printer may also automatically reboot in order to join the domain.
- 5. Select Security Template, then click Add a Security Template.
- Enter the name "AC Auth" or similar. Select the AC Authentication setup.
- 7. If you want to use authorization features, select Add Authorization. Select AC Authentication.
- 8. Click Save Template.
- 9. If you want to use Card Enroll, you must set up the Active Directory features and add an Active Directory security template. The Active Directory features may also be named Kerberos, depending on the printer.
- 10. Click Return to Security Setup.
- 11. Select Access Controls.
- 12. Set up the App/Solution 1-4 to use the **AC Auth** security template.
- **13.** Set up the App/Solution 5 to use the **Active Directory** security template.

See the table below to determine which printers are supported.

| Lexmark Security Name | Associated AC Lexmark Application |
|-----------------------|-----------------------------------|
| App 1 | AC Express |
| App 5 | Card Enroll |

5.10.4 Using the AC Lexmark applications

Prerequisites:

- An RFIDeas RDR-80583AKU card reader must be connected to the MFP if card based authentication is used.
- AC Authentication must be installed and configured on the device.
- Device security settings must be properly configured. At a minimum, an authentication method must be selected for the application you want to use.
- The user must have a card enrolled.

Users can follow the steps below to use a card reader to authenticate at the MFP front panel.

1. Touch the **AC Express** application button.

Figure 5-33 Lexmark welcome



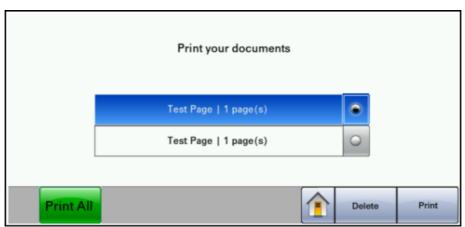
2. Present your proximity card at the card reader for scanning.

Figure 5-34 Lexmark swipe



- 3. Follow the on screen prompts to authenticate.
- **4.** Follow the on screen prompts to complete the requested action.

Figure 5-35 Lexmark select



5.11 Install and configure components on Xerox devices

Before the AC Express application can be used on the Xerox MFP front panel, MFP devices must have the AC Xerox Agent installed and enabled. This Xerox EIP solution allows applications to be server-based, giving the Xerox MFP the ability to display the menus and communicate with the jobs folder on the servers, without having any components residing directly on the MFP.

See the table below to determine which printers are supported.

Table 5-2 Supported printers

| Model | EIP Version version |
|---|---------------------|
| ColorQube 8700S, 8700X, 8700XF | 2.0 |
| ColorQube 8900X | |
| ColorQube 9301, 9302, 9303 | |
| WorkCentre 5735, 5740, 5745, 5755, 5765, 5775, 5790 | |
| WorkCentre 5865, 5875, 5890 | |
| WorkCentre 7220, 7220T, 7225, 7225T | |
| WorkCentre 7525, 7530, 7535, 7545, 7556 | |
| WorkCentre 7830, 7835, 7845, 7855 | |

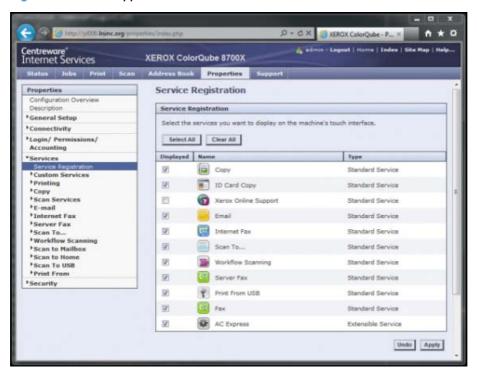
To verify if AC applications are already installed on the MFP, follow the steps below:



NOTE: The administration pages may vary, depending on the model of the Xerox printer.

- Open a web browser, navigate to https://servername/XeroxAppsWS/Default.aspx, where servername is the server address the SPPE application was installed. The page should display "Xerox applications are installed".
- Open the embedded Web server (EWS) for the MFP and log in with the user name and password of the device.
- Select **Properties** > **Service** > **Service Registration** and the list contained should display "AC Express."

Figure 5-36 Xerox application



5.11.1 Configure AC Xerox Applications

- NOTE: Different models of Xerox printers may have different administration pages and these steps may not be completely accurate.
- **NOTE:** HTTPS is required for communication on the web server and all printers.
- NOTE: Before configuring, make sure the device password matches the password in the **Settings** tile > **Device** tab.

Configuration of the AC Xerox Applications consists of setting up Xerox Secure Access security on your device. The following steps will guide you through the process.

- In the Devices tile, select the Xerox printer from the device list. Click the Configure button. Then select Pull printing. Click OK. Please wait a few seconds for the AC Xerox Applications solution to register and display on the printer.
- 2. Right click on the selected printer and select **Go to printer ews**.
- 3. On the printer admin pages select **Index** > **Login Methods**.
- Edit the Touch UI Method to use Xerox Secure Access, and set any other options to validate on the device.
- Select Save.
- 6. Click on the **Edit** action next to Xerox Secure Access Setup.
- Select Manually Override Settings.
- 8. Update the Hostname with the address of the SPPE server (ac.company.org).
- Update the Path to the correct path of the secure access service (normally "/XeroxAuthWS/ SecureAccess.asmx").

- 10. Change the authentication window title and description as desired, and save.
- **11.** Select **Index** > **User Permissions** to lock the Xerox Applications to only allow logged in users. This step differs greatly depending on the device and firmware version.

5.11.2 Using the AC Xerox Applications

Prerequisites:

- An RFIDeas RDR-80581AKU card reader with hardware ID VID_0C27&PID_3BFA&REV_1040 must be connected to the MFP if card based authentication is used.
- The user must have a card enrolled.

Users can follow the steps below to use a card reader to authenticate at the MFP front panel.

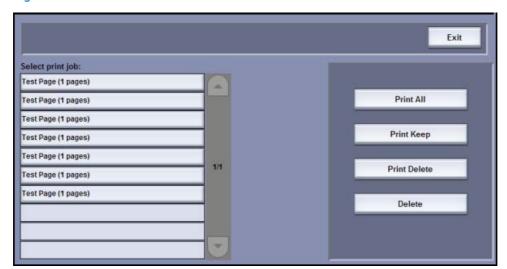
1. Touch the AC Express application button you would like to use.

Figure 5-37 Xerox welcome



- 2. Present your proximity card at the card reader for scanning.
- 3. Follow the on screen prompts to authenticate.
- 4. Follow the on screen prompts to complete the requested action.

Figure 5-38 Xerox documents



5.12 Configure XT devices

Prerequisites:

- Agent and Secure Pull Print Express must be installed on the server.
- Make sure the XT device is connected to a printer and to the network.
- If your server has a firewall, make sure TCP 2000 is open to send configuration files.
- If your server has a firewall, make sure UDP 11000 port is open for device discovery.
- Make sure the IRM authentication method is set to Card Only.
- Make sure the IRM Proximity Reader settings and Card settings are correct. Also, make sure Card ID
 masking is enabled.
- NOTE: After the card type configuration changes, the XT device must be rebooted or power cycled. To power cycle the XT device, unplug the power cord from the device and then re-plug the power cord.

Follow the steps below:

- 1. Select the XT device from the device list, then click Configure.
- In the Configure window, select Pull printing. Click OK.

The device reboots and then beeps five times, indicating the device is configured.

5.12.1 Pull print using XT card readers

Prerequisites:

- The XT device is connected to a printer and the network.
- The XT device is configured.
- Cards are registered to users.

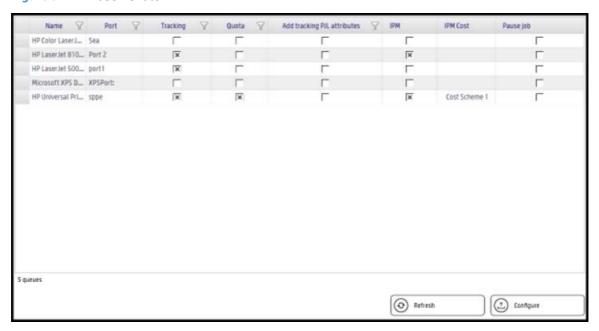
Follow the steps below:

- 1. Present your registered card at the XT card reader. The XT device identifies the registered card, authenticates the user, and locates your stored jobs in the spool folder. All of your stored jobs are then pulled from the spool folder, printed, and then deleted.
- Collect your printed documents.

Print server tile 6

The Print Server tile displays all print queues installed on the server, allowing you to configure print queues for tracking, guota or IPM. The columns may vary, depending on if Job Accounting, IPM or both are installed. The checkboxes under the columns indicate what features are enabled for the print queue.

Figure 6-1 Print server tile



NOTE: The Print Server tile displays if Job Accounting or IPM is installed.

To configure a print queue, select a print queue from the installed print queues list, then click **Configure**. In the Configure window, select features to enable. Click **OK**.

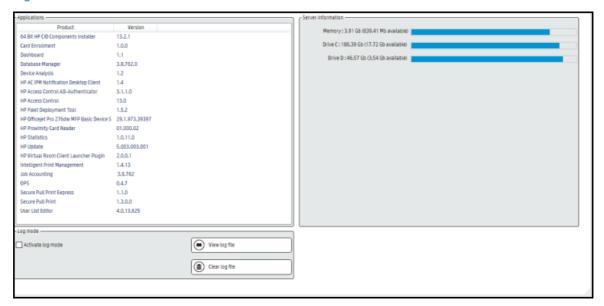
The Configure window displays the following possible features:

- Tracking: Enables tracking of print jobs sent to the selected print queue. The print queue tracking method can be either Port Monitor or Print Processor, depending on what is selected in the Settings tile > Print Server tab.
- **Quota**: Enables the enforcement of Job Accounting quotas for printing.
- **IPM**: Enables the implementation of IPM rules and costs. Select a cost per page scheme from the dropdown list. The cost per page schemes can be set in the **Settings** tile > **IPM** tab. The IPM Cost column displays the cost per page scheme assigned to the selected print gueue. For more information about IPM rules and costs, see the HP Access Control (HP AC) IPM Admin Guide.
- Add tracking PJL attributes: Inserts Job Accounting PJL attributes in the data stream. If an application generates a data stream that does not include the PJL header containing the user and job information, the user and job name are reported as UNSPECIFIED in Job Accounting reports.
- Pause job: Automatically pauses print jobs in the print queue. This feature is only possible when Port Monitor is selected for print queue tracking and the Windows service HP ACJASpool Monitor is started.

7 Server Information tile

The **Server Information** tile displays valuable information to help you manage HP Access Control (HP AC) on your server. This tile displays version numbers of installed components, storage and memory of the server, and the HP Access Control (HP AC) log. This makes it easy to check if your HP Access Control (HP AC) components are up to date and view valuable information about your server such as hard drive space available. Click Help > About to view copyright information about HP Access Control (HP AC).

Figure 7-1 Server Information tile



In the **Applications** section, view the list of installed components and version numbers. The Version column lists the versions of the components installed on your server.

In the **Server Information** section, the memory and hard drive storage of the server displays. Use this information to manage your storage and memory space.

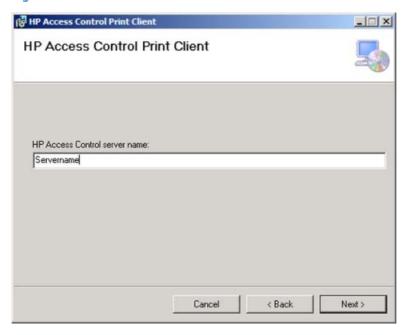
In the **Log mode** section, click the Activate log mode checkbox to enable the log to be created. The log tracks all activity and changes within HP Access Control (HP AC). Click **View log file** to open the log.

8 HP Access Control (HP AC) Print Client

The HP AC Print Client can be installed on client computers to automatically configure installed printers to use IPM rules and Quota. The HP AC server requires IPM and/or Job Accounting to be installed. The HP AC Print Client applies to all currently installed TCP/IP and LPD printers on the client computer. Follow the steps below:

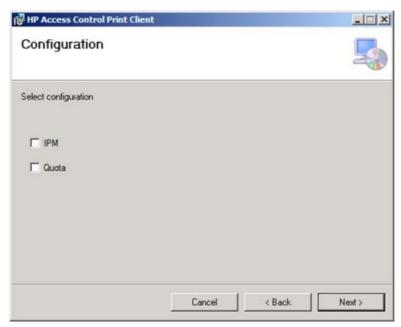
- 1. Copy the Print Client setup file from the server (located in C:\Program Files\Hewlett-Packard\HP Access Control\client setup\Print client) to the client computer, then run the Print Client setup file.
- 2. Follow the instructions in the setup wizard. When prompted, enter the name or IP address of the HP AC server with IPM and/or Job Accounting installed. Click **Next**.

Figure 8-1 HP AC Print Client connection



3. On the Configuration screen, select which components you want to configure on installed printers. Select IPM to apply the IPM rules from the HP AC server to installed printers on the client. Select Quota to apply quota rules from the HP AC server to installed printers on the client. Click Next.

Figure 8-2 HP AC Print Client configuration



4. After the installation is complete, click **Close**.